

CURRICULUM VITAE: Robert W. Allen

Business Address: Human Identity Testing Laboratory
Center for Health Sciences
Oklahoma State University
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Department of Forensic Sciences
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Date of Birth: February 21, 1950
Place of Birth: Tulsa, OK
Marital Status: Married, two children



EDUCATION

Graduate: September 1972-July 1977; Dept. of Biological Sciences, Purdue University, West Lafayette, IN.

Degree received: Ph.D. in Cell Biology

Undergraduate: September 1968-May 1972; Dept. of Life Sciences, University of Tulsa, Tulsa OK.

Degree received: B.S. in Zoology

WORK EXPERIENCE AND TRAINING

June 2004-Present: Associate Professor and Associate Director
Department of Forensic Sciences
Center for Health Sciences
Oklahoma State University
1111 West 17th
Tulsa, OK 74107

August 2004-Present: Director, Human Identity Laboratory
Center for Health Sciences
Oklahoma State University
1111 West 17th
Tulsa, OK 74107

January 2003-Present: Consulting Director, Parentage Testing Laboratory
Memorial Blood Centers
2304 Park Ave. South
Minneapolis, MN 55404

July 2002-July 2004: Consulting Director, Parentage Testing Laboratory

Institute for Forensic Science
Marshall University
1401 Forensic Drive
Huntington, West Virginia 25701

- August 2001- June 2004: Associate Professor of Biochemistry and Microbiology,
Associate Director, Forensic Sciences Program
Center for Health Sciences, Oklahoma State University
1111 W. 17th Street
Tulsa, OK 74107
- August 2001-Present: Director, Parentage Testing Program and Technical Leader
Kern County Crime Laboratory
1215 Truxton Ave.
Bakersfield, CA 93301
- August 1999-Present: Director, Parentage Testing Program and Technical Leader
Genetic Technologies, Inc.
PO Box 242
Glencoe, MO 63038
- June 1992- June 2004: Director, Laboratories for DNA and HLA Typing
H.A. Chapman Institute of Medical Genetics
Schusterman Health Sciences Center
4502 E. 41st Street
Tulsa, OK 74135
- August 1995-August 2001: Adjunct Associate Professor
OSU- College of Osteopathic Medicine
1111 W. 17th Street
Tulsa, OK 74107
- July 1992- Present: Adjunct Assistant Professor
OU College of Medicine-Tulsa
5310 E. 31st Street
Tulsa, OK 74135
- December 1985- June 1992: Scientific Director
American Red Cross
4050 Lindell Blvd.
St. Louis, MO 63108
- Dec. 1980-Dec. 1985: Assistant Scientific Director
American Red Cross
4050 Lindell Blvd.
St. Louis, MO 63108

December 1980-June 1992: Clinical Assistant Professor
Dept. of Pathology
St. Louis University School of Medicine
1402 S. Grand Blvd.
St. Louis, MO 63103

August 1977-Dec. 1980: Postdoctoral Fellow
Scripps Clinic and Res. Foundation
10666 N. Torrey Pines Rd.
La Jolla, CA 92037

June 1973-July 1977: Research Assistant
Department of Biological Sciences
Purdue University
West Lafayette, IN 47907

MEMBERSHIPS, CERTIFICATION, AND AWARDS

September, 2004: Recipient, capital improvement grant to the Graduate Program in Forensic Sciences, Oklahoma State University. \$85,600.

2004-Present: Member, American Academy of Forensic Sciences.

2002-Present: Certified Laboratory Director in New York State for Forensic Identity, Parentage Testing, Histocompatibility, Blood Genetic Marker Testing, DNA Testing, and HLA Testing. CQ Code: ALLER3.

2002-2003: Chairman, Accreditation Program Unit, American Association of Blood Banks, Bethesda, MD

2002: Western Area Chairman, Inspection and Accreditation Program Unit, American Association of Blood Banks, Bethesda, MD.

2001-Present: Member, International Society of Forensic Genetics, Munster, FRG

2000-Present: Editorial Board, Transfusion, American Association of Blood Banks
Bethesda, MD

1998-Present: Member of the Board of Directors, Oklahoma Organ Sharing Network.

1996-2000: Chairman, Parentage Testing Subcommittee, American Association of Blood Banks.

1996-Present: Member, American Society for Histocompatibility and Immunogenetics.

1996: Board Certification, American Board of Histocompatibility and Immunogenetics.

1995-Present: Member, Parentage Testing Ancillary Committee, College of American Pathologists.

1994-1996: Western Area Chairman, Inspection and Accreditation program, American Assoc. of Blood Banks.

1988-Present: Member of the American Assoc. of Blood Banks.

1988-2001: Member of the American Society of Human Genetics.

1988-2003: Member, Parentage Testing Subcommittee, American Assoc. of Blood Banks.

1981-Present: Member American Assoc. for the Advancement of Science.

January 1977-December 1979: Receptient of American Cancer Society Postdoctoral Fellowship.

May 1972: Member Kappa Kappa Gamma Honor Society, University of Tulsa, Tulsa, OK

May 1972: Dean's honor roll, University of Tulsa, Tulsa, OK.

PRESENTATIONS (last 5 years)

May 1999: Invited speaker. Natural variation in the human genome and its implications for clinical laboratory testing. Dept. of Pathology, University of Oklahoma, HSC, Oklahoma City, OK

August 1999: Invited speaker, How much is enough? Congress of the International Society of Forensic Hemogenetics, San Francisco, CA

October 1999: Invited speaker, Application of molecular biology to parentage testing and forensic medicine. 24th International Symposium on Blood Transfusion, Groningen, Holland.

November 1999: Invited speaker, Novel statistical interpretation of a paternity case involving a triploid fetus. Annual Meeting of the American Association of Blood Banks, San Francisco, CA.

November 1999: Invited speaker, Review of the 4th Edition of Standards for Parentage Testing Laboratories. Annual Meeting of the American Association of Blood Banks, San Francisco, CA.

November 1999: 1998 Annual Report Summary for Parentage Testing Laboratories. Annual Meeting of the American Association of Blood Banks, San Francisco, CA.

May 2000: Invited Speaker, Prenatal genotyping for the RhD blood group antigen: Considerations in developing an accurate test. Research Day, University of Oklahoma College of Medicine.

June 2000: Invited Speaker, Accreditation of parentage testing laboratories by the American Association of Blood Banks, English Speaking Working Group, International Society of Forensic Genetics, Soderkoping, Sweden.

May 2001: Invited Speaker, Variability in human chromosomal DNA and its use in clinical diagnostic testing. Association of Genetic Technologists Annual Meeting, Minneapolis, MN.

August 2001: Invited Speaker, Grading of qualitative and quantitative responses in the PI survey of the College of American Pathologists for the years 1997-2000. International Society of Forensic Genetics Symposium, Muenster, Germany.

October 2001: Invited Speaker, Variability in the human genome and its use in clinical diagnostic testing including genetic disease, histocompatibility, and monitoring of bone marrow engraftment. Clinical diagnostic testing workshop. ASHI/AABB workshop of the annual meeting of the American Association of Blood Banks, San Antonio, TX.

October 2001: Invited Speaker, Annual report summary for parentage testing laboratories. Parentage Testing SIG, Annual meeting of the American Association of Blood Banks, San Antonio, TX.

October 2001: Invited Speaker, DNA Analysis: The investigation of Crime and Family Relatedness. Project Shield, Sponsored by the U.S. Attorney's Office, Western District.

February, 2002: Invited Speaker, Genetics and Medicine: Methods and their Application, Tulsa United Laboratory Seminar Association. Tulsa, OK.

May, 2002: Invited Speaker, Significant advances in scientific research over the past 50 years and their impact on the practice of medicine. Keynote address, Research Day, University of Oklahoma School of Medicine, Tulsa, OK.

October 2002: Invited Speaker, Update on accreditation issues for parentage testing laboratories. Parentage Testing SIG, Annual Meeting of the American Association of Blood Banks, Orlando, FL.

October 2002: Invited Speaker, Characteristics of mutations associated with VNTR loci. Parentage Testing SIG, Annual Meeting of the American Association of Blood Banks, Orlando, FL.

October 2002: Invited Speaker, Variability in the human genome and its use in clinical diagnostic testing including genetic disease, histocompatibility, and monitoring of bone marrow engraftment. Clinical diagnostic testing workshop. ASHI/AABB workshop of the annual meeting of the American Association of Blood Banks, Orlando, FL.

April, 2003: Invited Speaker, DNA typing: Methods, applications, and issues accompanying its use. DCI Conference on Enrollment, Honolulu, HI.

September, 2003: Invited Speaker, Characteristics of D5S818 mutations revealed through study of a flanking marker. Bi-annual meeting of the International Society of Forensic Genetics, Arcachon, France.

September, 2003: Invited Speaker, eDNA: Networking software tailored for identity testing laboratories. Bi-annual meeting of the International Society of Forensic Genetics, Arcachon, France.

September, 2003: Invited Speaker, Proficiency testing programs for DNA typing laboratories offered by the College of American Pathologists. Bi-annual meeting of the International Society of Forensic Genetics, Arcachon, France.

November, 2003: Invited Speaker, Characteristics of mutations at the D5S818 locus studied through linkage to a SNP marker flanking the tandem array. Annual meeting of the American Association of Blood Banks, San Diego, CA.

November, 2003: Invited Speaker, Variability in the human genome and its use in clinical diagnostic testing including genetic disease, histocompatibility, and monitoring of bone marrow engraftment. Clinical diagnostic testing workshop. ASHI/AABB workshop of the annual meeting of the American Association of Blood Banks, San Diego, CA.

January, 2004: Invited Speaker, DNA Typing: An intersection point for science and society. Window on Forensics Week. Family Science Night, Broken Arrow High School, Broken Arrow, OK.

October, 2004: Invited speaker; Update on enhancements to the PAR, FID, and DNA proficiency testing surveys from the College of American Pathologists. Annual meeting of the American Association of Blood Banks, Baltimore, MD.

October 2004: Invited Speaker: Variability in the human genome and its use in clinical diagnostic testing including genetic disease, histocompatibility, and monitoring of bone marrow engraftment. Clinical diagnostic testing workshop. ASHI/AABB workshop of the annual meeting of the American Association of Blood Banks, Baltimore, MD.

REFERENCES

Dr. James A. Hoch
Scripps Clinic and Research Foundation
10666 N. Torrey Pines Rd.
La Jolla, CA

Dr. Niels Morling
Dept. of Forensic Genetics
Institute of Forensic Medicine
University of Copenhagen
Frederik V's Vej 11
DK-2100 Copenhagen
Denmark

Dr. David Gjertson
UCLA Tissue Typing Laboratory
950 Veteran Ave.
Los Angeles, CA 90095

Dr. Marilyn Pollack
University of Texas HSC at San Antonio
Histocompatibility Laboratory
7703 Floyd Curl Drive
San Antonio, TX 78284-7840

PUBLICATIONS

1. Allen, R.W. and Moskowitz M. (1978) Arrest of cell growth in the G1 phase of the cell cycle by serine deprivation. *Exp. Cell Res.* 116:127-137.
2. Allen, R.W. and Moskowitz M. (1978) Regulation of the rate of protein synthesis in BHK-21 cells by exogenous serine. *Exp. Cell Res.* (116:137-152.
3. Allen R.W., Ferrone, S., and Hoch J.A. (1982) Characterization of antigens on human lymphocytes coded by messenger RNA translated in vitro. *Molec. Immunol.* 19:1127-1139.
4. Billings P.B., Allen R.W., Jensen F.C., and Hoch S.O. (1982) Anti-RNP monoclonal antibodies derived from a mouse strain with Lupus-like autoimmunity. *J. Immunol.* 128:1176-1180.
5. Allen R.W. and Hoover B.A. (1983) Re-orientation of membrane polypeptides during erythrocyte maturation. *Blood* 61:803-806.
6. Allen R.W. (1983) Molecular genetics of the major histocompatibility complex: A brief review. *AACHTION News* 7:11-13.

7. Allen R.W., Nunley N., Kimmeth M.E., Wallhermfecht M., and Vengelen-Tyler V. (1984) Isolation and characterization of a monoclonal antibody recognizing the N blood group antigen. *Transfusion* 24:136-140.
8. Kahn R.A., Allen R.W., Baldassare J., and Cheetom P. (1985) Alternative Technologies in: *Blood Policy and Technology* (Washington D.C.: U.S. Congress, Office of Technology Assessment, OTa-H-260, January 1985), P133-172.
9. Newman P.J., Allen R.W., Kahn R.A. and Kunicki T.J. (1985) Quantitation of membrane glycoprotein IIIa on intact human platelets using the monoclonal antibody AP-3. *Blood* 65:227-232.
10. Allen R.W. and Hoover B.A. (1985) Characterization of the processed form of a ubiquitous protein displaying a variable membrane organization in erythroid cells. *Blood* 65:1048-1055.
11. Kahn R.A., Allen R.W., and Baldassare J. (1985) Alternate sources and substitutes for therapeutic blood componenets *Blood* 66:1-12.
12. Lin T. and Allen R.W. (1986) Isolation and characterization of the 37K protein associated with the erythrocyte membrane. *J. Biol. Chem.* 261:4594-4599.
13. Allen R.W., Kahn R.A., and Baldassare J. (1986) Advances in the production of blood cell substitutes with alternate technologies. Wallas C.H. and McCarthy Eds. *New Frontiers in Blood Banking*. American Assoc. of Blood Banks. Arlington, VA P21-49.
14. Wallhermfecht M. and Allen R.W. (1986) Current status and new technologies in parentage testing. *Immunohematol.* 2:94-96.
15. Allen R.W., Trach K.A., and Hoch J.A. (1987) Identification of the 37 Kda protein displaying a variable interaction with the erythroid membrane as glyceraldehyde 3-phosphate dehydrogenase. *J. Biol. Chem.* 262:649-653.
16. Hoover B.A. and Allen R.W. (1987) Coating sequencing gel plates. *Focus* 9:13.
17. Allen R.W. (1988) Restriction site polymorphism (RFLP) detected with pG3PD and Taq 1. *Adv. Forensic Hemogenet.* 2:377-382.
18. Allen R.W. Bliss B., and Pearson A. (1989) Characteristics of a DNA probe (pa3'HVR) when used for paternity testing. *Transfusion* 29:477-485.
19. Allen R.W., Wallhermfecht M. and Miller W.V. (1989) The application of RFLP mapping to parentage testing. *Transfusion* 30:552-564.

20. Allen R.W. (1989) Characteristics of some DNA probes useful for identity testing. DNA for parentage testing: Current State of the Art (Dykes and Polesky, eds), American Assoc. of Blood Banks, Arlington, VA.
21. Allen R.W. (1989) DNA probes and their use in diagnosis and identification. In: Recombinant DNA technology and Applications (Ho C, Prokop A., and Bajpai R., eds) McGraw Hill, N.Y., N.Y.
22. Allen R.W., Hoover B.A., Santiago L., and Miller J. (1990) Compatibility of several HVR-type probes with Pvu II restriction endonuclease and advantages of Pvu II over other commonly used enzymes. *Adv. Forensic Hemogenet.* 3:83-87.
23. Krane D., Allen R.W., Sawyer S.A., Petrov D., and Hartl D.L., (1993) Genetic differences at four DNA typing loci in Finnish, Italian, and mixed Caucasian populations. *Proc. Natl. Acad. Sci. (USA)* 89:10583-10587.
24. Chimera J.A., Allen R.W., Eisenberg A., Endean D., Farkas D.H., et al. (1992) Inter-laboratory assessment of the D1S80 AMFLP locus in paternity testing. Proceedings of the 3rd International Symposium on Human Identification, Promega Corp. Madison, WI P199-204.
25. Cagliotti S., and Allen R.W. (1994) A review of molecular methods for tissue typing. *AABB Newsbriefs* 16:16-17.
26. Allen R.W. and Sanford-Sharp C.E. (1994) Single base substitutions give rise to a five-banded DNA profile at the D10S28 locus. *Transfusion* 34:412-414.
27. Allen R.W. (1995) Annual Report Summary (Data submitted for 1994). AABB Parentage Testing Standards Committee, American Association of Blood Banks, Bethesda, MD.
28. Allen R.W. (1997) Annual Report Summary (Data submitted for 1995 and 1996), Parentage Testing Standards Committee, American Association of Blood Banks, Bethesda, MD.
29. Cagliotti S., and Allen R.W. (1996) Molecular methods available for tissue typing. *Tissue and Cell Report* 3:27-28.
30. Allen R.W. (1995) Overview of DNA analysis methods. In: Molecular methods for diagnosis and research. (Allen R.W. and Aubuchon J., eds) American Assoc. of Blood Banks, Bethesda, MD p1-24.
31. Harrison C., Allen R.W., Morris J., Polesky H., Roby R., and Walker R.H. (1996) Current practices in the use of RFLP analysis in parentage testing. In: Proceedings of the International Symposium for Human Identification. Promega Corp, Madison, WI.

32. Harrison C., Allen, R.W., Morris J., Polesky H., Roby R., and Walker R.H. (1996) Current practices in the use of PCR analysis in parentage testing. In: Proceedings of the International Symposium for Human Identification. Promega Corp., Madison, WI.
33. Allen, R.W. Prenatal blood grouping using the polymerase chain reaction, In: Applications of molecular biology to blood transfusion medicine. (Ed. George Garratty) AABB Press, American Association of Blood Banks, Bethesda, MD, c1997, p103-120.
34. Allen R.W. (1998) Annual Report Summary (Data submitted for 1997), Parentage Testing Standards Committee, American Association of Blood Banks, Bethesda, MD.
35. Allen, R.W. (1998) Parentage testing in the United States: The role of the American Association of Blood Banks. In: Profiles in DNA. (Isobel MacIver ed.), Promega Corp., Madison, WI, Volume 2, Number 2, p7-8.
36. Polesky H.F., Allen, R.W., Eisenberg A.J., Harrison C.R., Roby, R., and Walker R.H. (1998) Scoring systems for DNA test results from parentage testing proficiency program. Progress in Forensic Genetics 7: 546-548.
37. Harrison, C.R., Allen, R.W., Eisenberg A.J., Polesky H.F., Roby R., and Walker R.H. (1998) PCR systems used by laboratories participating in the AABB/CAP parentage testing proficiency program. Progress in Forensic Genetics 7: 544-545.
38. Allen R.W. (1999) Annual Report Summary (Data submitted for 1998), Parentage Testing Standards Committee, American Association of Blood Banks, Bethesda, MD.
39. Allen, R.W., Traver, M. and Pritchard, J.K. (2000) DNA analysis in a paternity case involving a triploid fetus. Transfusion 40:240-244..
40. Allen R.W. (2000) Annual Report Summary (Data submitted for 1999), Parentage Testing Standards Committee, American Association of Blood Banks, Bethesda, MD.
41. Allen, R.W., Harrison, C.R., Eisenberg A.J., Roby, R.K., Walker R.H., Wenk R.E., and Polesky H.F. (2000) Grading of quantitative data in the CAP/AABB parentage testing program. Progress in Forensic Hemogenetics 8:602-605.
42. Polesky H.F., Allen R.W. Eisenberg A.J., Harrison C.R., Roby R.K., Walker R.H., and Wenk R.E. (2000) Paper problems to evaluate parentage laboratory proficiency. Progress in Forensic Hemogenetics 8:606-608.
43. Polesky H.F., Allen R.W., Eisenberg A.J., Harrison C.R., Roby R.K., Walker R.H., and Wenk R.E. (2000) Systems reported by laboratories participating in the AABB/CAP parentage testing program 1993-1998. Progress in Forensic Hemogenetics 8:609-611.
45. Allen, R.W. (2000) Application of molecular biology to parentage testing and forensic medicine. Molecular Biology in Blood Transfusion. Proceedings of the 24th

International Symposium on Blood Transfusion, Groningen, Holland, (Eds. C.TH. Smit Sibinga and H.G. Klein), Kluwer Academic Publishers, Dordrecht, The Netherlands, 35:35-54.

46. Allen, R.W. and Pritchard J. (2000) Novel statistical interpretation in a paternity case involving separate mutations in two children at the D5S110-VNTR locus. *J. Assoc. Genetic Tech.* 26:57-61.

47. Allen R.W., Ward S.A., and Harris R. (2001) Prenatal genotyping for the RhD blood group antigen: Considerations in developing an accurate test. *Genetic Testing* 4:377-381.

48. Allen R.W. (2001) Annual Report Summary (Data submitted for 2000), Parentage Testing Standards Committee, American Association of Blood Banks, Bethesda, MD.

49. Allen R.W., Pritchard J., Harman J., and Chandler S., (2000) Phenotypic differences at the HUMvWA locus amplified with different STR kits. (Letter to the Editor), *J. Forensic Sciences* 5:1166-1167.

50. Morling N., Allen R.W., Carracedo A, Geada H., Guidot F., Hallenberg C., Martin W., Mayr W., Olaisen B., Pascali V., and Schneider P.M. (2002) Paternity testing commission of the International Society of Forensic Genetics: Recommendations on genetic investigations in paternity cases. *For. Sci. International* 3447:1-10.

51. Gorlin J., Mount M.K., Allen R.W., and Pritchard J.K. (2002)(Abstract) Will the real father please stand up?: Case report of a difficult to resolve pair of reportedly unrelated alleged fathers. *Transfusion* 42 (Supplement): 42S.

52. Allen, R.W., Eisenberg A., Harrison C., Walker R.H., Young C.T., Zeagler D.L., Roby R., and Polesky H.F. (2003) Grading of qualitative and quantitative responses in the PI proficiency survey of the College of American Pathologists for mailings in 1997-2000. *Progress in Forensic Genet.* 1239: 825-829.

53. Edwards, M. and Allen R.W. (2004) Characteristics of mutations at the D5S818 locus studied using a tightly linked marker. *Transfusion* 44:83-90.

54. Allen R.W., Roby R.K., Harrison C., Eisenberg A.J., and Polesky H.F. (2004) Proficiency testing programs for DNA typing laboratories offered by the College of American Pathologists. *Prog. In Forensic Genet. (International Congress Series, 1261)* 10:121-124.

55. Allen R.W., Harman K., and Sieker A. (2004) eDNA: Networking software tailored for identity testing laboratories. *Prog. In Forensic Genet. (International Congress Series, 1261)* 10:118-120.

56. Edwards M., and Allen R.W. (2004) Characteristics of D5S818 mutations revealed through study of a flanking marker. *Prog. In Forensic Genet. (International Congress Series, 1261)* 10:118-120.
57. Harrison, C., Allen R.W., Eisenberg A.J., Polesky H.F., Roby R., Young C. Te, Walker R., and Zeagler D. (2004) Phenotype versus genotype reporting for DNA polymorphisms. *Prog. In Forensic Genet. (International Congress Series, 1261)* 10:526-528.
58. Allen, R.W. and Pritchard, J.K. (2004) Resolution of a serum sample mixup through the use of STR DNA typing. *Transfusion* 44: 1750-1754.
59. Allen, R.W. Just how big is DNA based identification? (Editorial) *Journal of the Assoc. of Genetic Technologists* February, 2005.
60. Allen, R.W., Fuller, V.M. Quantitation of human genomic DNA through amplification of the amelogenin locus. (*Journal of Forensic Sciences, In Press*).
61. Joslin, J.J, Gulik M. and Allen R.W. Detection of DNA profiles from DNA deposited in fingerprints. (in preparation).